

JOHNSTONELLA CATHARINA, GOSSE. THE CRYSTALLINE
JOHNSTONELLA.

Mr. Gosse, in his amusing and interesting work on the coast of Devonshire, describes as new to science an animal under the above name. I am sorry,—as I should much wish for the above name to have been permanent,—to have to observe that it appears to belong to the same genus as the animal described by Eschscholtz in the 'Isis' (1825), p. 736. t. 5. f. 5, under the name of *Tomopteris onisciformis* from the South Seas; and by MM. Quoy and Gaimard in the 'Voyage of the Astrolabe,' ii. p. 284. t. 21. f. 21, 24, under the name of *Briaræa Scolopendra* from the coast of Spain. Hermanssen has proposed to change the latter name to *Briaræa*: Harry Goodsir calls it *Briareus*: and Mr. R. Ball writes it *Bryarea*. Eschscholtz and Quoy and Gaimard regard it as a mollusk; the first referring it to the order *Heteropoda*, and the latter to the *Nudibranchiata*.

Mr. Harry Goodsir, who found the animal abundant in the North Sea (Ann. and Mag. Nat. Hist. 1845, xvi. 163), observing the presence of "cilia fringing the bifurcated posteriors of the lateral extremity of its body," decided that it could not be a mollusk.

Menke (Zeitsch. für Malac. 1844, 21) proposes to remove the genus to the Annelides; more recent authors have considered it as a Crustacean.

Mr. Gosse at first sight thought it might be a Brachiopod Crustacean, but thinks it has more affinity to the Annelides (p. 348), and refers it to that class in the Systematic Index.

According to Eschscholtz and Quoy and Gaimard, the South Sea specimens are very much smaller than those found in the Mediterranean: thus, *Tomopteris onisciformis* and *T. Scolopendra* are most probably distinct species. Mr. Gosse's *Johnstonella Catharina* is, no doubt, a synonym of the latter, since Mr. R. Ball records that *Bryarea Scolopendra* has been taken in Dublin Bay by Dr. Corrigan (Proc. Brit. Assoc. 1849, p. 72).—JOHN EDW. GRAY.

July 14, 1853.

On a new genus of Anomiadæ. By J. E. GRAY, F.R.S. &c.

TEDINIA.

Shell irregular, loosely lamellar; upper or right valve with a broad cardinal groove, and with three muscular scars, the upper small, oblong near the cartilage, the other two large, subcentral, upper sub-trigonal, lower oblong, transverse, united by a nearly straight medial cross line; left or attached valve with an elongated, triangular, convex cardinal ridge, with a deep groove on each side, having the cartilage on its inner edge, with two muscular scars, one small, half oblong near the cardinal ridge, the other large, subcentral, subcircular, and with a roundish circular hole near the upper edge, with a slight impression showing the grooves to the margin some distance from the cardinal ridge; the plug shelly, fixed into and exactly fitting the hole, with a triangular base sunk into the surface, commencing from the apex of the shell on the outer surface, and formed of erect shelly longitudinal plates within.

The shell has the plug and much the external appearance of the subgenus *Pododesmus*, but differs from it and all the other *Anomia-dæ* in the following particulars: 1. That the line which indicates the junction of the two edges of the sinus which forms the perforation, instead of being placed on the side of the ridge which supports the cartilage, is placed at a considerable distance from it; 2. The sides of the sinus are firmly soldered together, leaving only a circular hole; 3. The support of the cartilage, instead of being merely a ridge or process, here forms a large elongated subtriangular talus, like that found in the genus *Ostrea*; 4. It differs greatly in the number and form of the muscular scars; the two large ones in the free valves are placed as in the genus *Placunanomia*, and there is a third anterior one in each valve not found in any genus of the family, and very unlike the third scar of the genus *Anomia*. I know only of a single specimen of the genus, which is in the collection of Mr. Cuming, who believes that it came from California. It may be called *Tedinia pernoides*; subquadrangular, reddish, subsquamose, obscurely radiated, internally reddish brown.—*Proc. Zool. Soc.* June 24, 1851.

METEOROLOGICAL OBSERVATIONS FOR JUNE 1853.

Chiswick.—June 1. Overcast: slight rain. 2. Cold haze: overcast: heavy clouds. 3. Fine: clear. 4. Slightly overcast: cloudy and fine: clear. 5, 6. Very fine. 7. Hazy: very fine. 8. Very fine: overcast. 9. Cloudy and mild. 10. Fine. 11. Slight haze: fine. 12. Overcast: rain. 13. Constant rain. 14. Cloudy. 15. Very fine: heavy clouds: overcast. 16. Very fine: clear. 17. Cloudy and fine. 18. Fine. 19. Rain. 20. Very fine: cloudy and showery at night. 21. Very fine: rain: clear. 22. Cloudy: slight rain. 23. Fine: clear at night. 24. Very fine: clear. 25. Rain: cloudy: rain. 26. Overcast: rain at night. 27. Densely overcast: slight rain. 28. Overcast. 29. Cloudy and fine. 30. Showery.

Mean temperature of the month	59°·16
Mean temperature of June 1852	58·01
Mean temperature of June for the last twenty-seven years .	60·56
Average amount of rain in June	1·77 inch.

Boston.—June 1—5. Cloudy. 6. Fine: rain P.M. 7, 8. Fine. 9. Cloudy. 10—13. Fine. 14. Cloudy: rain, with thunder and lightning P.M. 15. Fine. 16. Cloudy. 17. Fine. 18. Cloudy. 19. Rain: rain A.M. and P.M. 20. Fine: rain P.M. 21. Cloudy: rain P.M. 22. Cloudy: rain A.M. and P.M. 23. Cloudy. 24. Fine. 25. Cloudy: rain A.M. 26, 27. Cloudy: rain A.M. and P.M. 28. Cloudy: rain A.M. 29. Fine: rain A.M. 30. Cloudy: rain P.M.

Sandwich Manse, Orkney.—June 1. Fog A.M.: damp P.M. 2, 3. Drops A.M.: cloudy P.M. 4. Cloudy A.M. and P.M. 5. Clear A.M.: cloudy P.M. 6. Cloudy A.M.: showers, fine P.M. 7. Clear, fine A.M.: clear P.M. 8. Clear A.M.: hazy P.M. 9. Drizzle A.M.: showers, fog P.M. 10. Fog A.M. and P.M. 11. Fog A.M.: showers, hazy P.M. 12. Hazy A.M. and P.M. 13. Bright A.M.: clear, fine P.M. 14. Bright, fine A.M.: cloudy P.M. 15. Showers A.M.: cloudy P.M. 16. Cloudy A.M.: cloudy, fine P.M. 17. Cloudy A.M.: rain P.M. 18. Rain A.M.: cloudy P.M. 19. Bright A.M.: rain P.M. 20. Damp A.M.: clear, fine P.M. 21. Clear, fine A.M. and P.M. 22. Clear, fine A.M.: fog P.M. 23. Damp A.M.: clear P.M. 24. Showers A.M. and P.M. 25. Showers A.M.: clear P.M. 26. Bright A.M.: clear P.M. 27. Rain A.M. and P.M. 28. Bright A.M.: cloudy P.M. 29. Rain A.M.: showers P.M. 30. Cloudy A.M. and P.M.

Mean temperature of June for twenty-six previous years	52°·69
Mean temperature of June 1852	55·33
Mean temperature of this month	55·21
Average quantity of rain in June for seven previous years ...	2·46 inches.